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#22 1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/743,107B

DATE: 12/27/2002

TIME: 13:50:57

Input Set : A:\003300-723.ST25.txt

Output Set: N:\CRF4\12272002\I743107B.raw

Raw Seq
1/8/03

4 <110> APPLICANT: Hanson, Lars A.
 5 Baltzer, Lars
 6 Mattsby-Baltzer, Inger
 7 Dolphin, Gunnar T.
 9 <120> TITLE OF INVENTION: Peptides Based on the Sequence of Human Lactoferrin
 10 and Their Use
 12 <130> FILE REFERENCE: 003300-723
 14 <140> CURRENT APPLICATION NUMBER: US 09/743,107B
 15 <141> CURRENT FILING DATE: 2001-08-21
 17 <150> PRIOR APPLICATION NUMBER: PCT/SE99/01230
 18 <151> PRIOR FILING DATE: 2000-09-29
 20 <150> PRIOR APPLICATION NUMBER: SE 9802441-7
 21 <151> PRIOR FILING DATE: 1998-07-06
 23 <150> PRIOR APPLICATION NUMBER: SE 9802562-0
 24 <151> PRIOR FILING DATE: 1998-07-17
 26 <150> PRIOR APPLICATION NUMBER: SE 9804614-7
 27 <151> PRIOR FILING DATE: 1998-12-29
 29 <160> NUMBER OF SEQ ID NOS: 102
 31 <170> SOFTWARE: PatentIn version 2.1
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 25
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <221> NAME/KEY: MOD_RES
 40 <222> LOCATION: (1)
 41 <223> OTHER INFORMATION: ACETYLTATION
 43 <220> FEATURE:
 44 <221> NAME/KEY: PEPTIDE
 45 <222> LOCATION: (1)
 46 <223> OTHER INFORMATION: Amino acid 1 is Xaa wherein Xaa = Glu or no amino acid.
 48 <220> FEATURE:
 49 <221> NAME/KEY: PEPTIDE
 50 <222> LOCATION: (2)
 51 <223> OTHER INFORMATION: Amino acid 2 is Xaa wherein Xaa = Ala or no amino acid.
 53 <220> FEATURE:
 54 <221> NAME/KEY: PEPTIDE
 55 <222> LOCATION: (5)
 56 <223> OTHER INFORMATION: Amino acid 5 is Xaa wherein Xaa = Cys or Ala.
 58 <220> FEATURE:
 59 <221> NAME/KEY: PEPTIDE
 60 <222> LOCATION: (7)
 61 <223> OTHER INFORMATION: Amino acid 7 is Xaa wherein Xaa = Gln or Lys.

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66 <223> OTHER INFORMATION: Amino acid 11 is Xaa wherein Xaa = Asn or Asp.
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69 <221> NAME/KEY: PEPTIDE
70 <222> LOCATION: (17)..(25)
71 <223> OTHER INFORMATION: Amino acids 17-25 are Xaa wherein Xaa = Gly, Pro, Pro, Val,
Ser,
72 Cys, Ile, Lys, Arg
74 <220> FEATURE:
75 <221> NAME/KEY: MOD_RES
76 <222> LOCATION: (25)
77 <223> OTHER INFORMATION: AMIDATION
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or artificial
81 origin, corresponding to modification of the sequence
82 consisting of aa 16-40 in human lactoferrin
84 <400> SEQUENCE: 1
W--> 86 Xaa Xaa Thr Lys Xaa Phe Xaa Trp Gln Arg Xaa Met Arg Lys Val Arg
87 1 5 10 15
W--> 89 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
90 20 25
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94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
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98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (1)
100 <223> OTHER INFORMATION: ACETYLTATION
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104 <222> LOCATION: (25)
105 <223> OTHER INFORMATION: AMIDATION
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
109 artificial origin, corresponding to a modification
110 of the sequence consisting of amino acids 16-40 in
111 human lactoferrin
113 <400> SEQUENCE: 2
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115 1 5 10 15
117 Gly Pro Pro Val Ser Cys Ile Lys Arg
118 20 25
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124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:

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130 <223> OTHER INFORMATION: ACETYLTATION
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133 <221> NAME/KEY: MOD_RES
134 <222> LOCATION: (25)
135 <223> OTHER INFORMATION: AMIDATION
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138 <221> NAME/KEY: DISULFID
139 <222> LOCATION: (5)..(22)
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142 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
143     artificial origin, corresponding to a modification
144     of the sequence consisting of amino acids 16-40 in
145     human lactoferrin
147 <400> SEQUENCE: 3
148 Glu Ala Thr Lys Cys Phe Gln Trp Gln Arg Asn Met Arg Lys Val Arg
149   1           5           10           15
151 Gly Pro Pro Val Ser Cys Ile Lys Arg
152           20           25
156 <210> SEQ ID NO: 4
157 <211> LENGTH: 23
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial Sequence
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163 <222> LOCATION: (1)
164 <223> OTHER INFORMATION: ACETYLTATION
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168 <222> LOCATION: (23)..(23)
169 <223> OTHER INFORMATION: AMIDATION
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
173     artificial origin, corresponding to a modification
174     of the sequence consisting of amino acids 18-40 in
175     human lactoferrin
177 <400> SEQUENCE: 4
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179   1           5           10           15
181 Pro Val Ser Cys Ile Lys Arg
182           20
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187 <211> LENGTH: 23
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <221> NAME/KEY: MOD_RES
193 <222> LOCATION: (1)

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Input Set : A:\003300-723.ST25.txt

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197 <221> NAME/KEY: MOD_RES
198 <222> LOCATION: (23)
199 <223> OTHER INFORMATION: AMIDATION
201 <220> FEATURE:
202 <221> NAME/KEY: DISULFID
203 <222> LOCATION: (3)..(20)
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
207     artificial origin, corresponding to a modification
208     of the sequence consisting of amino acids 18-40 in
209     human lactoferrin
211 <400> SEQUENCE: 5
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213   1           5           10           15
215 Pro Val Ser Cys Ile Lys Arg
216           20
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221 <211> LENGTH: 14
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
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227 <222> LOCATION: (1)
228 <223> OTHER INFORMATION: ACETYLATION
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231 <221> NAME/KEY: MOD_RES
232 <222> LOCATION: (14)
233 <223> OTHER INFORMATION: AMIDATION
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
237     artificial origin, corresponding to a modification
238     of the sequence consisting of amino acids 18-31 in
239     human lactoferrin
241 <400> SEQUENCE: 6
242 Thr Lys Ala Phe Lys Trp Gln Arg Asp Met Arg Lys Val Arg
243   1           5           10
247 <210> SEQ ID NO: 7
248 <211> LENGTH: 14
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <221> NAME/KEY: MOD_RES
254 <222> LOCATION: (1)
255 <223> OTHER INFORMATION: ACETYLATION
257 <220> FEATURE:
258 <221> NAME/KEY: MOD_RES
259 <222> LOCATION: (14)

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260 <223> OTHER INFORMATION: AMIDATION
 262 <220> FEATURE:
 263 <221> NAME/KEY: BINDING
 264 <222> LOCATION: (5)..(9)
 266 <220> FEATURE:
 267 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
 268 artificial origin, corresponding to a modification
 269 of the sequence consisting of aa 18-31 in human
 270 lactoferrin; a lactam is formed between aa 5 and 9
 272 <400> SEQUENCE: 7
 273 Thr Lys Ala Phe Lys Trp Gln Arg Asp Met Arg Lys Val Arg
 274 1 5 10
 278 <210> SEQ ID NO: 8
 279 <211> LENGTH: 20
 280 <212> TYPE: PRT
 281 <213> ORGANISM: Artificial Sequence
 283 <220> FEATURE:
 284 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
 285 natural or artificial origin consisting of the
 286 amino acids in positions 12-31 of the protein
 287 human lactoferrin
 289 <400> SEQUENCE: 8
 290 Val Ser Gln Pro Glu Ala Thr Lys Cys Phe Gln Trp Gln Arg Asn Met
 291 1 5 10 15
 293 Arg Lys Val Arg
 294 20
 298 <210> SEQ ID NO: 9
 299 <211> LENGTH: 7
 300 <212> TYPE: PRT
 301 <213> ORGANISM: Artificial Sequence
 303 <220> FEATURE:
 304 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
 305 natural or artificial origin consisting of the
 306 amino acids in positions 12-18 of the protein
 307 human lactoferrin
 309 <400> SEQUENCE: 9
 310 Val Ser Gln Pro Glu Ala Thr
 311 1 5
 315 <210> SEQ ID NO: 10
 316 <211> LENGTH: 7
 317 <212> TYPE: PRT
 318 <213> ORGANISM: Artificial Sequence
 320 <220> FEATURE:
 321 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
 322 natural or artificial origin consisting of the
 323 amino acids in positions 13-19 of the protein
 324 human lactoferrin
 326 <400> SEQUENCE: 10
 327 Ser Gln Pro Glu Ala Thr Lys

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\003300-723.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1, 2, 5, 7, 11, 17, 18, 19, 20, 21, 22, 23, 24, 25

Seq#:43; Xaa Pos. 2, 4, 6, 10

Seq#:87; Xaa Pos. 5

Seq#:88; Xaa Pos. 5

Seq#:89; Xaa Pos. 7

Seq#:90; Xaa Pos. 7

Seq#:99; Xaa Pos. 3, 4, 5, 6, 7, 8, 9